DE 10041700, be used in an emulsion with emulsifier such as Lizitin, for application onto the inflamed portions of skin. But the inflammation healing agent as per Volume DE 10041700 does not have any satisfactory effect and its applicability period/shelf life is short. When used, the preparation presumes a simultaneous application of the adversely acting synthetic stabilizers and emulsifiers. A cosmetic and therapeutic agent, composed of the hemp oil which is relieved of the oxidation-prone additives that are degrading this non-refined hemp oil via a bacterial biodegradation and that are evoking both the chemical and pharmacological instability, is known from the Volume CZ - UI-13335. When improved like this, the hemp oil can better counteract the action of the UV radiation and has an enhanced capacity to bind upon itself other pharmaceutics. Production of the cosmetic and therapeutic agent per Volume CZ - UI-13335 consists of multiple stages, being very demanding in technological terms, and its manufacturing cycle is very long. Removal of the oxidation-prone additives is incomplete.

Document GB 1356749 is known, which discloses a method of producing vegetable fats and oils by extraction with a solvent, therein the fat or oil is removed from the vegetable matter by extraction with supercritical gases, comprising carbone dioxide. The use of carbone dioxide is based on the inactivity of the inert gas in the respect of the taste and health. With the method according to the document GB 1356749 it is possible for the fats or oils to be completely extracted in their natural composition from the vegetable metrial without chemical modification even of the residue. The

document GB 1356749 does not disclose any other quality or feature of the disclosed method. Document DE 3542932 is known, which discloses a method of a soft extraction of crushed up oil seeds with carbone dioxide. The disclosed method is used due to time efficiency and gentleness in respect to the oil seeds. The document DE 3542932 does not disclose any other quality or feature of the disclosed method.

Object of the invention is to avoid the disadvantages of the state of the art as mentioned above and to provide a natural, more efficient active substance conveyor and absorbent, possessing moreover a better capacity to bind upon itself the bioactive substances, to penetrate into the deeper skin layers, and to convey the bioactive substances without the use of any synthetic carriers, featuring a longer utility period without the necessity to use any conservation chemicals, which - in its primary composition - would also show - without any additives - healing and relaxing effects, preferably in case of the dermal diseases and also contain - in its primary composition - a natural UV protective factor.

Furthermore, the objective of the invention is to provide the method of production of hemp seed oil which - in respect to the state of the art as mentioned above - would better penetrate and convey the active substances into the deeper skin layers without the use of any synthetic carriers and would bind upon itself a broader spectrum of the bioactive substances. A further objective is to produce an agent which with these properties easily and reliably in the industrial conditions.

Subject-matter of the Invention

To a major extent the disadvantages of the current state of technology are eliminated and the invention objectives achieved by a hemp seed oil for transfer and absorption of active substances of pharmaceutical and cosmetic preparations into the skin according to the invention consisting in that it is a product of extraction of the milled down hemp seeds by means of carbon dioxide. Advantageously one weight share of the extract may create a mixture with two weight shares of the solution containing up to 30 % in weight of sodium bicarbonate. The invention objectives are also achieved by a method of production of hemp seed oil for transfer and absorption of active substances of pharmaceutical and cosmetic preparations into the skin, consiting in that the hemp seeds are milled down to hemp flour, then pressure-extracted by means of the carbon dioxide to hemp oil. Advantageously, hemp seeds may be milled down to a fine hemp flour, the milled down hemp flour then poured into the extraction cartridges that are then inserted into the extractor; the extractor gets closed and carbon dioxide is driven into it at the temperature between about 35 °C - 45 °C and under pressure between 25 MPa - 35 MPa, advantageously at 40 °C and the pressure 20 Mpa, with the hemp oil extraction process slowed down the carbon dioxide pressure in the extractor is reduced down to the value of the ambient atmospheric pressure and the hemp oil is separated from the carbon dioxide, then the carbon dioxide is taken out of the extractor to a reserve tank and stored there in its supercritical condition. Advantageously, 2 % - 35 % in weight of the crushed silicon sand may be mixed into the

extracted hemp oil for removal of the chlorophyll and waxes; following the surface absorption, the crushed silicon sand is filtered out. According to the invention the hamp seed oil manufactured by a method according to the invented method of production may be used for transfer and absorption of active substances of pharmaceutical and cosmetic preparations into the skin.

The cosmetic, dietetic, and therapeutic preparations containing a conveying and absorption agent for conveying the active substances according to the invention have better efficiency as the conveying and absorption agent has a strong capacity to bind upon itself the bioactive substances. Unlike the agents known until now, the conveying and absorption agent according to the invention is able to bind upon itself a broader spectrum of the bioactive substances such as e.g. cytokines, CD monoclonal antibodies, arachid acid derivates, low-molecular peptides, modern antibiotics, and other substances, to penetrate and convey them into the deeper skin layers without the use of any synthetic carriers. The conveying and absorption agent according to the invention does not irritate skin, but on the contrary has more bio-chemical qualities, is healing eczema, acne, and relaxes notably psoriasis without application of any other active substances

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Patent claims

1. Hemp seed oil for transfer and absorption of active substances of pharmaceutical and cosmetic preparations into the skin,
c h a r a c t e r i s e d b y t h a t
it is a product of extraction of the milled down hemp seeds by means of carbon dioxide.

2. Hemp seed oil according to the claim 1,
c h a r a c t e r i s e d b y t h a t
one weight share of the extract creates a mixture with two weight shares of the solution containing up to 30 % in weight of sodium bicarbonate.

3. A method of production of hemp seed oil for transfer and absorption of active substances of pharmaceutical and cosmetic preparations into the skin,
c h a r a c t e r i s e d b y t h a t
the hemp seeds are milled down to hemp flour, then pressure-extracted by means of the carbon dioxide to hemp oil.

4. A method of production according to the claim 3,
c h a r a c t e r i s e d b y t h a t
hemp seeds are milled down to a fine hemp flour, the milled down hemp flour is then poured into the extraction cartridges that are then inserted into the extractor; the extractor gets closed and carbon dioxide is driven into it at the temperature between about 35 °C - 45 °C and under pressure between 25 MPa

- 35 MPa, advantageously at 40 °C and the pressure 20 Mpa, with the hemp oil extraction process slowed down the carbon dioxide pressure in the extractor is reduced down to the value of the ambient atmospheric pressure and the hemp oil is separated from the carbon dioxide, then the carbon dioxide is taken out of the extractor to a reserve tank and stored there in its supercritical condition.

5. A method of production according to the claim 3 or 4, c h a r a c t e r i s e d b y t h a t 2 % - 35 % in weight of the crushed silicon sand is mixed into the extracted hemp oil for removal of the chlorophyll and waxes; following the surface absorption, the crushed silicon sand is filtered out.

6. A use of the hemp seed oil manufactured by a method according to one of the claims 3-5 for transfer and absorption of active substances of pharmaceutical and cosmetic preparations into the skin.